

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 58116165
PUBLICATION DATE : 11-07-83

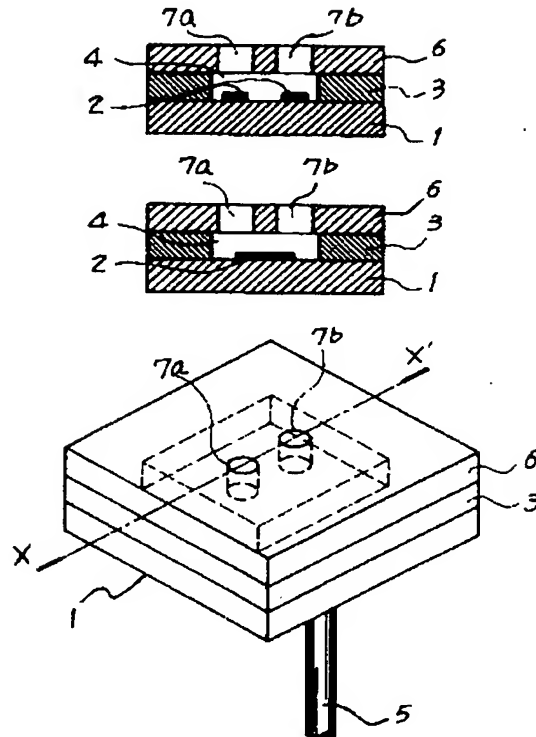
APPLICATION DATE : 29-12-81
APPLICATION NUMBER : 56215330

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INT.CL. : B41J 3/04

TITLE : INK INJECTION HEAD



ABSTRACT : **PURPOSE:** To obtain the thin and compact ink injection head capable of forming a high-density ink dot in stable by a method wherein more than two sets of proximate ink discharging holes are arranged for one ink chamber equipped with ink discharging pressure generating elements.

CONSTITUTION: The ink injection head is arranged with one or more than two sets of ink discharging pressure generating elements, such as heating elements, piezo-electric elements or the like, in the ink chamber 4 consisting of a base plate 1, a spacer 3 and a flat plate 6 having ink discharging holes 7. In this case, two sets or more of the ink discharging holes 7a, 7b are provided proximately with each other for one set of the ink chamber 4. According to this method, when a plurality of ink discharging holes 7a, 7b are opposed closely to the surface of a recording paper and the elements 2 are operated so as to scan into a direction substantially orthogonal to a row X-X', ink is injected from a plurality of proximate discharging holes 7a, 7b and forms the ink dots having a pitch substantially same as the arranged pitch of the discharging holes 7a, 7b.

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